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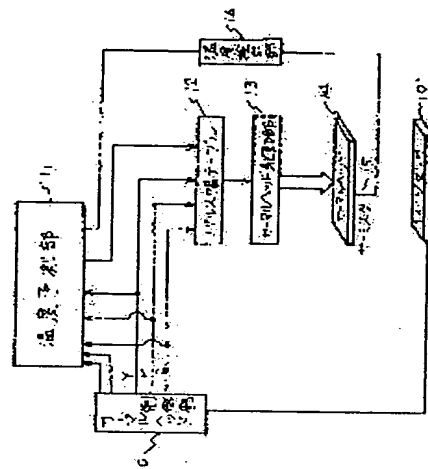
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(54) THERMAL RECORDER HAVING TEMPERATURE PREDICTIVE CONSTANT CONTROLLING PERFORMANCE

(57)Abstract:

PURPOSE: To shorten constant setting time for the purpose of predicting temperature by a method wherein a repetitive pattern of low density and high density is printed, and thermal resistance with which heat accumulated amount becomes minimum and equivalent heat time constant are automatically established by reading its printing result.
CONSTITUTION: Just before start of thermal recording with a thermal head 14, a thermal head control part 10 sends a temperature data with a thermistor 15 and a detecting part 16 to a temperature predicting part 11, and predicts temperature of the head 14 from a gradation data of a recording pixel, a recording speed data, etc. Then, a repetitive pattern of flow density and high density is sent to the thermal head 14 via a pulse width table 12 and a driving part 13 with a test pattern generating circuit, and its printing result is read by an image sensor 101. A gradation value of an printing image is examined, and a heating amount table and a cooling constant table existing in the temperature predicting part 11 are selected according to the result. Thermal resistance and equivalent heat time constant can be automatically established thus in mounting the heat.



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